VULNERABLE POPULATION



Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

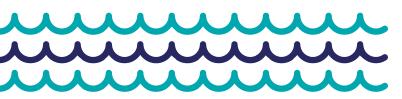
For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at 1-800-426-4791.

SOURCE WATER ASSESSMENT



Based on the information currently available on the hydrogeologic settings and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the Arizona Department of Environmental Quality (ADEQ) has given a high risk designation for the degree to which this public water system drinking water source(s) are protected. A designation of high risk indicates there may be additional source water protection measures which can be implemented on the local level. This does not imply that the source water is contaminated nor does it mean that contamination is imminent. Rather, it simply states that land use activities or hydrogeologic conditions exist that make the source water susceptible to possible future contamination.

Further source water assessment documentation can be obtained by contacting ADEQ.





DEFINITIONS

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present.

Level 2 Assessment: A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria was present.

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements.

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water.

Maximum Contaminant Level Goal MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health.

Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur.

Minimum Reporting Limit (MRL): The smallest measured concentration of a substance that can be reliably measured by a given analytical method.

Millirems per year (MREM): A measure of radiation absorbed by the body.

Not Applicable (NA): Sampling was not completed by regulation or was not required.

Not Detected (ND or <): Not detectable at reporting limit.

Nephelometric Turbidity Units (NTU): A measure of water clarity.

Million fibers per liter (MFL)

Picocuries per liter (pCi/L): Measure of the radioactivity in water

ppm: Parts per million or Milligrams per liter (mg/L)

ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or Nanograms per liter (ng/L)

ppq: Parts per quadrillion or Picograms per liter (pg/L)

 $daq = 0001 \times maq$

ppb x 1000 = ppt

ppt x 1000 = ppq



2020





FSTA INFORMACIÓN SORRE EL AGUA ES MUY IMPORTANTI



AZ0414015

City of Somerton

CONTACT NAME AND TITLE

PHONE NUMBER

Leo Lomeli / Water Plant Supervisor

(928) 722-7322

E-MAIL ADDRESS

leolomeli@somertonaz.gov

We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact **Sally Cavazos at 928-722-7322** for additional opportunity and meeting dates and times.

DRINKING WATER SOURCES



The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public

OUR WATER SOURCE COMES FROM 2 WEELS 300FEET DEEP

DRINKING WATER CONTAMINANTS



Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic Contaminants: Such as salts and metals that can be naturallyoccurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources.

Organic Chemical Contaminants: Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.



WATER QUALITY DATA - REGULATED CONTAMINANTS

Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	.0335	200 - 400	4	0	Jan-Dec 2019	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5)(ppb)	N	0.002		60	N/A	Qrtly 2019	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)(ppb)	N	0.035		80	N/A	Qrtly 2019	Byproduct of drinking water disinfection

Lead & Copper	Violation Y or N	90th Percentile	Samples Exceeds AL	AL	ALG	Month & Year	Contamination
Copper (ppb)	N	0.042	0	1.3	1.3	July 2019	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	0.0000	0	15	0	July 2019	Corrosion of household plumbing systems; erosion of natural deposits
Water Quality Data							
Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Sou	rce of Contamination
E. Coli	N	0	0	0	0	human and fecal waste	
Fecal Indicator (From GWR source) (Coliphage, enterococci and/or E. coli)	N	0	0	0	0	human and fecal waste	
Inorganic Chemichals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Antimony (ppb)	N	<1		6	6	May 2019	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic ¹ (ppb)	N	1.6		10	0	May 2019	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Barium (ppm)	N	0.06		2	2	May 2019	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	<1		4	4	May 2019	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	<0.5		5	5	May 2019	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	<1		100	100	May 2019	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide (ppb)	N	<25		200	200	May 2019	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Fluoride (ppm)	N	0.29		4	4	May 2019	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	<0.2		2	2	May 2019	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	N	<0.05		10	10	May 2019	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	N	<5		50	50	Nov 13 2020	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppb)	N	240		N/A	N/A	May 2019	Erosion of natural deposits
Thallium (ppb)	N	<1		2	0.5	May 2019	Leaching from ore- processing sites; discharge from electronics, glass, and drug factories

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synthetic Organic Chemicals SOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
4-D (ppb)	N	<0.1		70	70	Jul 2019	Runoff from herbicide used on row crops
4,5-TP (a.k.a. Silvex) (ppb)	N	<0.2		50	50	Jul 2019	Residue of banned herbicide
achlor (ppb)	N	<0.1		2	0	Jul 2019	Runoff from herbicide used on row crops
trazine (ppb)	N	<0.05		3	3	Jul 2019	Runoff from herbicide used on row crops
enzo (a) pyrene (ppb)	N	<0.02		200	0	Jul 2019	Leaching from linings of water storagetanks and distribution lines
arbofuran (ppb)	N	<0.5		40	40	Jul 2019	Leaching of soil furnigant used on rice and alfalfa
hlordane (ppb)	N	<0.1		2	0	Jul 2019	Residue of banned termiticide
alapon (ppb)	N	<1		200	200	Jul 2019	Runoff from herbicide used on rights of way
i (2-ethylhexyl) adipate (ppb)	N	<0.6		400	400	Jul 2019	Discharge from chemical factories
i (2-ethylhexyl) phthalate (ppb)	N	<0.6		6	0	Jul 2019	Discharge from rubber and chemical factories
Dibromochloropropane	N	<110		200	0	Jul 2019	Discharge from rubber and chemical factories
Dinoseb (ppb)	N	<0.2		7	0	Jul 2019	Discharge from rubber and chemical factories
Diquat (ppb)	N	<0.4		6	0	Jul 2019	Discharge from rubber and chemical factories
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)	N	<0.5		6	0	Aug 2019	Discharge from rubber and chemical factories

Endothall (ppb)	N	<5		6	0	Aug 2019	Discharge from rubber an chemical factories
Endrin (ppb)	N	<0.01		6	0	Aug 2019	Discharge from rubber an chemical factories
Ethylene dibromide	N	<0.1		6	0	May 2019	Discharge from rubber an chemical factories
Glyphosate (ppb)	N	<6		6	0	May 2019	Discharge from rubber an chemical factories
Heptachlor (ppt)	N	<0.01		6	0	May 2019	Discharge from rubber an chemical factories
Heptachlor epoxide (ppt)	N	<0.01		6	0	May 2019	Discharge from rubber an chemical factories
Hexachlorobenzene (ppb)	N	<0.05		1	0	May 2019	Discharge from metal refineries and agricultural chemical factories
Lindane (ppb)	N	<0.01		200	200	May 2019	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	<0.05		40	40	May 2019	Runoff/leaching from insecticide used on fruit, vegetables, alfalfa
Oxamyl (a.k.a. Vydate) (ppb)	N	<0.5		200	200	May 2019	Runoff/leaching from insecticide used on apples potatoes, and tomatoes
Pentachlorophenol (ppb)	N	<0.04		1	1	May 2019	Discharge from wood preserving factories
Picloram (ppb)	N	<0.1		500	500	May 2019	herbicide runoff
Simazine (ppb)	N	<0.05		4	4	May 2019	herbicide runoff
Toxaphene (ppb)	N	<0.5		3	0	May 2019	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Benzene (ppb)	N	<0.5		5	0	May 2019	Discharge from factories; leaching from gas storage tanis and landfills
Carbon tetrachloride (ppb)	N	<0.5		5	0	May 2019	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	N	<0.5		100	100	May 2019	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	N	<0.5		600	600	May 2019	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	<0.5		75	75	May 2019	Discharge from industrial chemical factories
1,2-Dichloropane (ppb)	N	<0.5		5	0	May 2019	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	<0.5		7	7	May 2019	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	<0.5		70	70	May 2019	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	<0.5		100	100	May 2019	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	<0.5		5	0	May 2019	Discharge from pharmaceutical and chemical factories
1,2-Dichloropropene (ppb)	N	<0.5		5	0	May 2019	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	<0.5		700	700	May 2019	Discharge from petroleum refineries
Styrene (ppb)	N	<0.5		100	100	May 2019	Discharge from rubber and chemical factories; Leachin from landfills
Tetrachlorethylene (ppb)	N	<0.5		5	0	May 2019	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	<0.5		70	70	May 2019	Discharge from textile- finishing factories
1,1,1-Trichloroethane (ppb)	N	<0.5		200	200	May 2019	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	N	<0.5		5	3	May 2019	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	<0.5		5	0	May 2019	Discharge from metal degreasing sites and other factories
Toluene (ppb)	N	<0.5		1	1	May 2019	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	<0.3		2	0	May 2019	Leaching from PVC piping discharge from chemical factories
Xylenes (ppm)	N	<0.0005		10	10	May 2019	Discharge from petroleur or chemical factories

